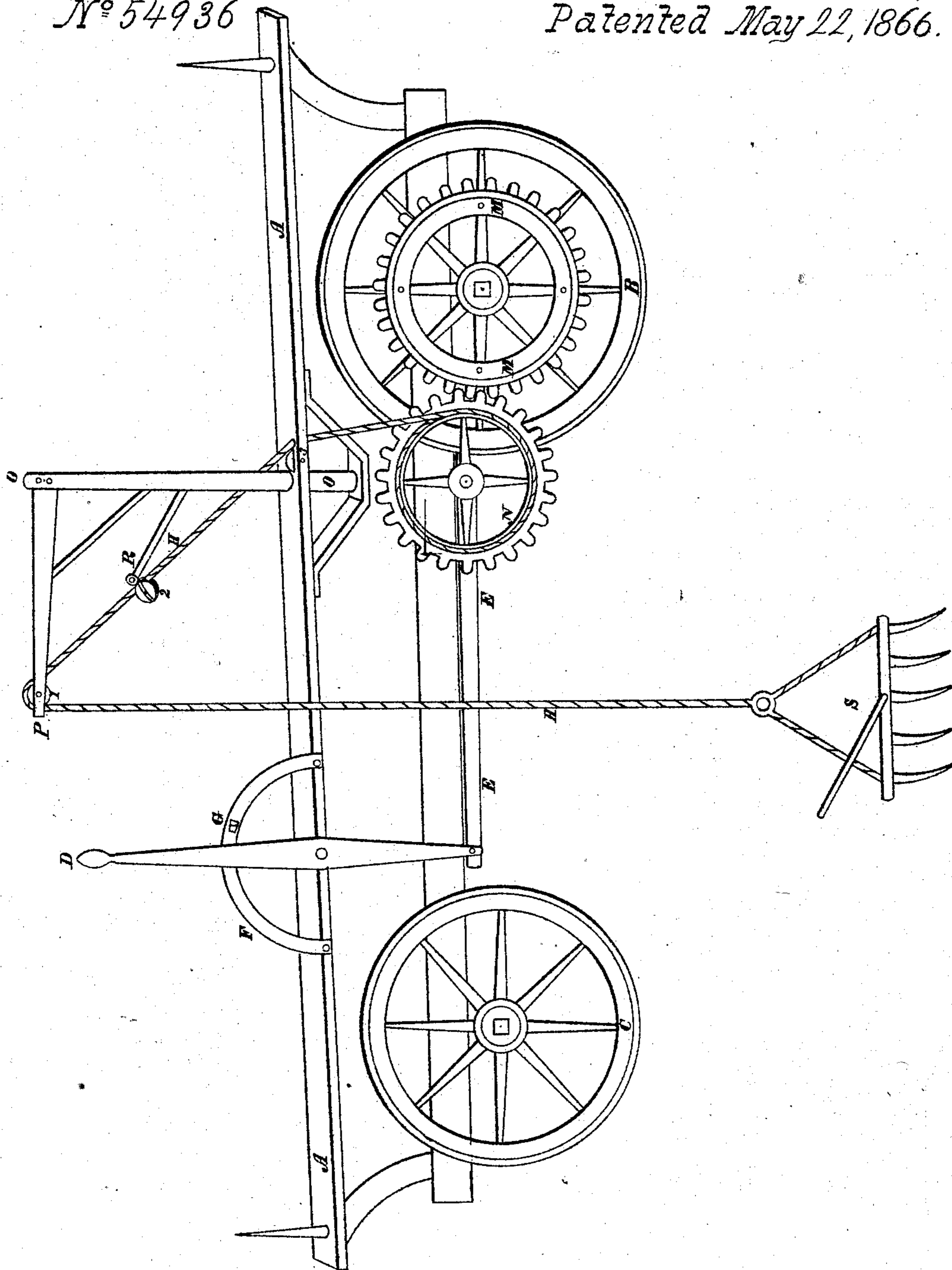


J. M. Miller.

Hay Loader.

N^o 54936

Patented May 22, 1866.



Witnesses:

*A. B. Richmond,
Jas. H. Pierce*

Inventor:

James Madison Miller

UNITED STATES PATENT OFFICE.

JAMES MADISON MILLER, OF GREENWOOD TOWNSHIP, CRAWFORD COUNTY,
PENNSYLVANIA.

IMPROVEMENT IN LOADING ATTACHMENTS TO HAY-WAGONS.

Specification forming part of Letters Patent No. **54,936**, dated May 22, 1866.

To all whom it may concern:

Be it known that I, JAMES MADISON MILLER, of Greenwood township, in the county of Crawford and State of Pennsylvania, have invented a new and Improved Hay and Wagon Loader; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and the letters of reference marked thereon.

The drawing represents one side of a common hay-rack with my invention attached thereto and in working order, the same being represented only so far as is necessary to fully understand the construction and operation of the same.

M M is a cogged driving-wheel bolted onto the spokes of the hind wheel of a wagon, and may be removed or put on at pleasure.

N is a smaller cogged wheel, which gears into the wheel M M. The wheel N is a drum-wheel, or has a drum on the rim, around which the rope H H is wound as the wheel revolves. This wheel is thrown in and out of gear with the wheel M M by means of the lever D and bar E E, the wheel N being attached to the bar E E.

P O O is a crane attached to the wagon-rack A A so that it will revolve easily. 1 2 3 are pulleys to guide the rope H H onto the drum-wheel N.

To operate my invention the wagon is placed alongside of a hay-cock or windrow and the fork S forced into the same by a man on the ground. The driver on the wagon now throws the wheel N in gear with the wheel M M by means of the lever D being placed in the position shown in the drawing, when the rope H H is wound up and the forkful of hay or grain hoisted up to the end of the crane-arm P, when the crane is swung in and the hay dropped in the rack or on the load. When this is done and the fork released the lever D is drawn back to the latch G on the semicircle F, and the wheel N thereby thrown out of gear, and the fork is drawn down (the wheel N revolving easily on the bar E E) until the rope is unwound and the machine is again ready for use.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The wheel M M, attached to the wagon-wheel, in combination with the wheel N, the lever D, and bar E E, and the crane P O O, when the same are constructed in the aforesaid combination and for the purposes set forth, in the manner described.

JAMES MADISON MILLER.

Witnesses:

A. B. RICHMOND,
IRA H. PEIRCE.